



04C
3-22-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION

#3

In the Application of:

Guven et al. Atty. Docket: TI-32148
Serial No.: 09/750,264 Art Unit: TBD
Filed: December 29, 2000 Examiner: TBD
For: MODEM RELAY PROTOCOL Date: April 16, 2001
REDUNDANCY FOR RELIABLE
LOW SPEED MODEM
COMMUNICATIONS OVER IP
NETWORKS WITH SUBSTANTIAL
PACKET LOSS

Assistant Commissioner for
Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING 37 CFR §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D. C. 20231 on the date indicated below.

4/16/01
WL
Warren L. Franz, Reg. No. 28,716

LETTER TO THE OFFICIAL DRAFTSPERSON

Sir:

Please find enclosed eight (8) sheets of substitute/formal drawings for the subject application as required by the Notice to File Corrected Application Papers mailed February 15, 2001, a copy of which is also enclosed.

Respectfully submitted,

Warren L. Franz 4/16/01
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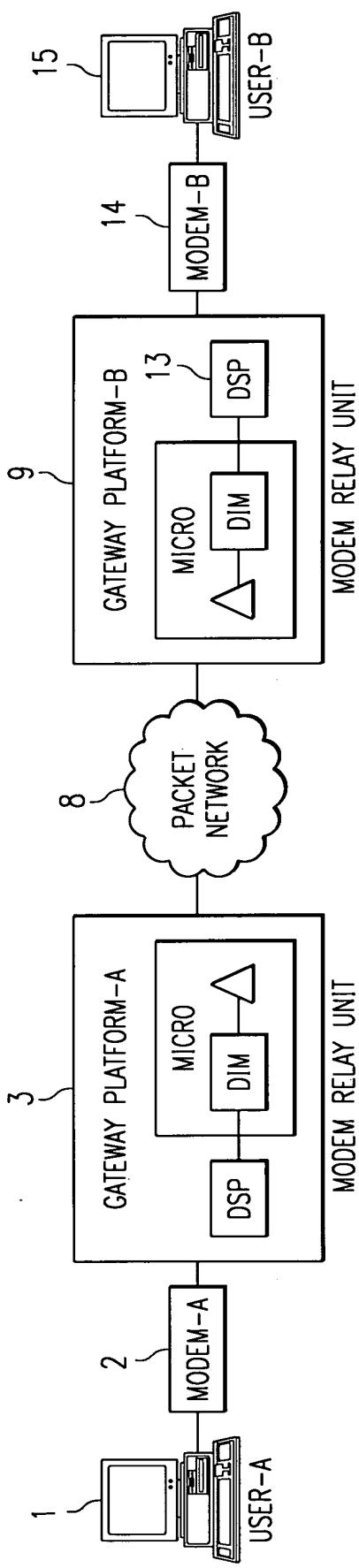


FIG. 1

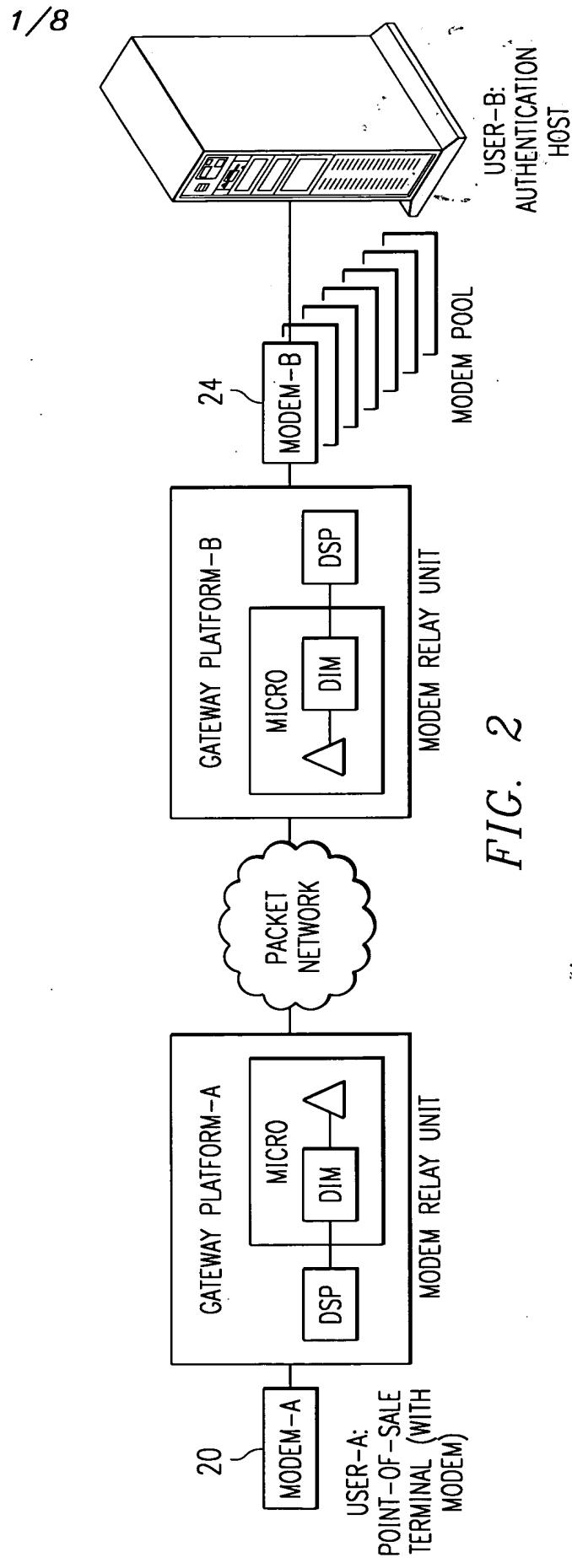
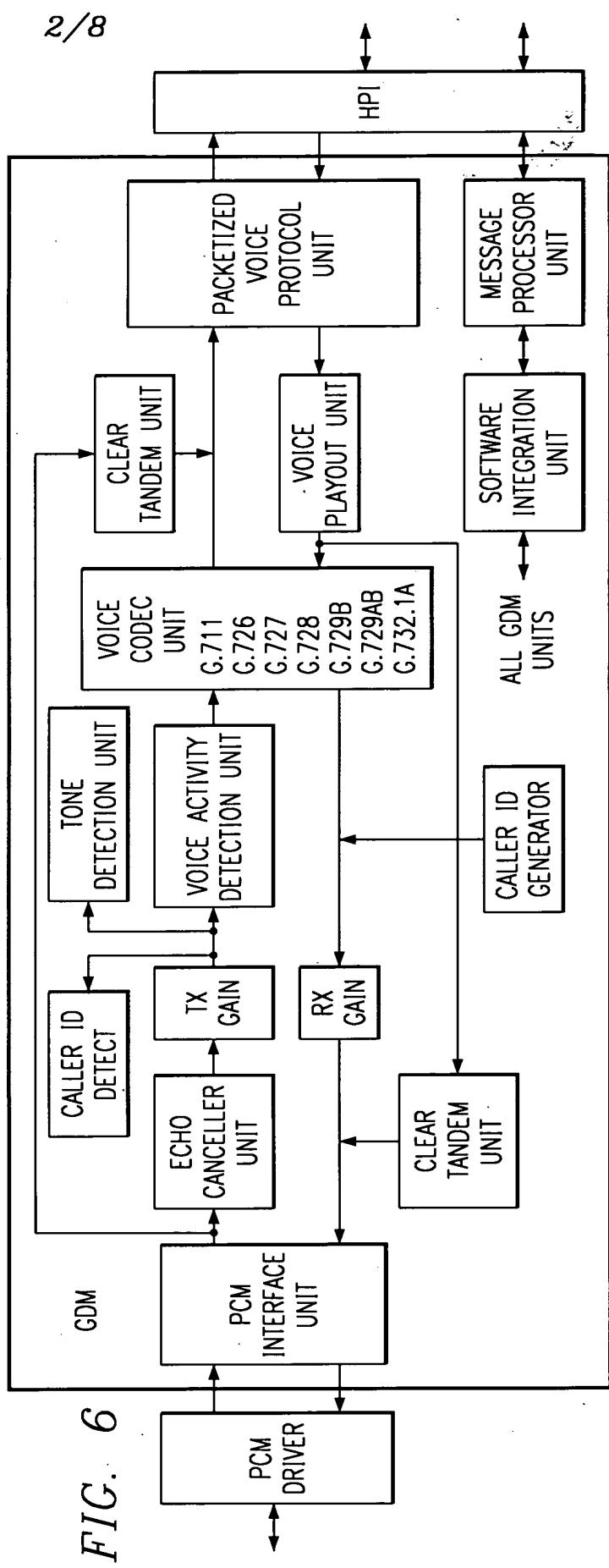
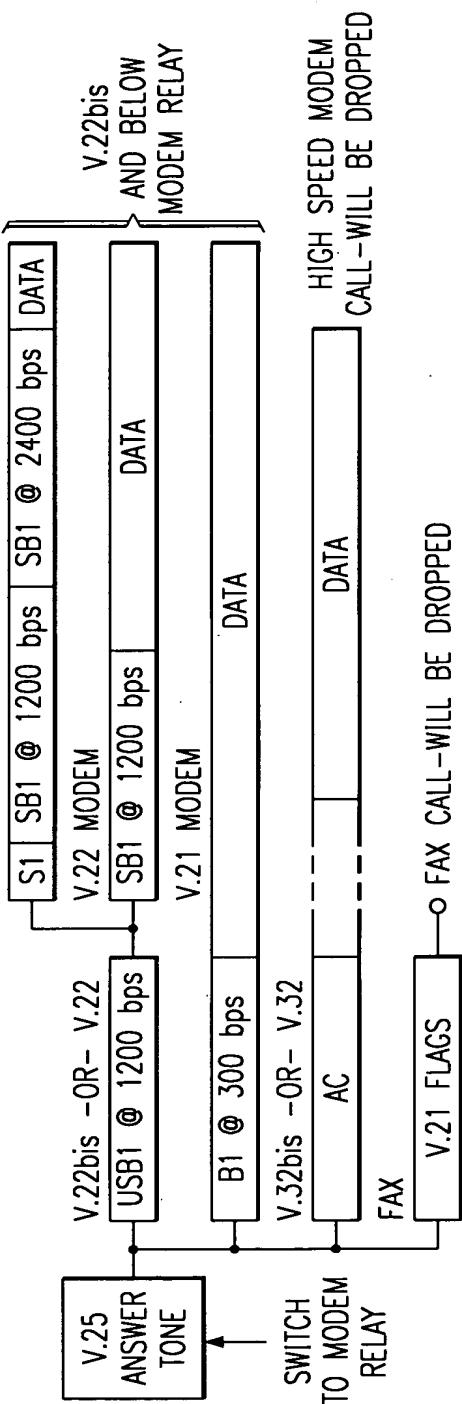
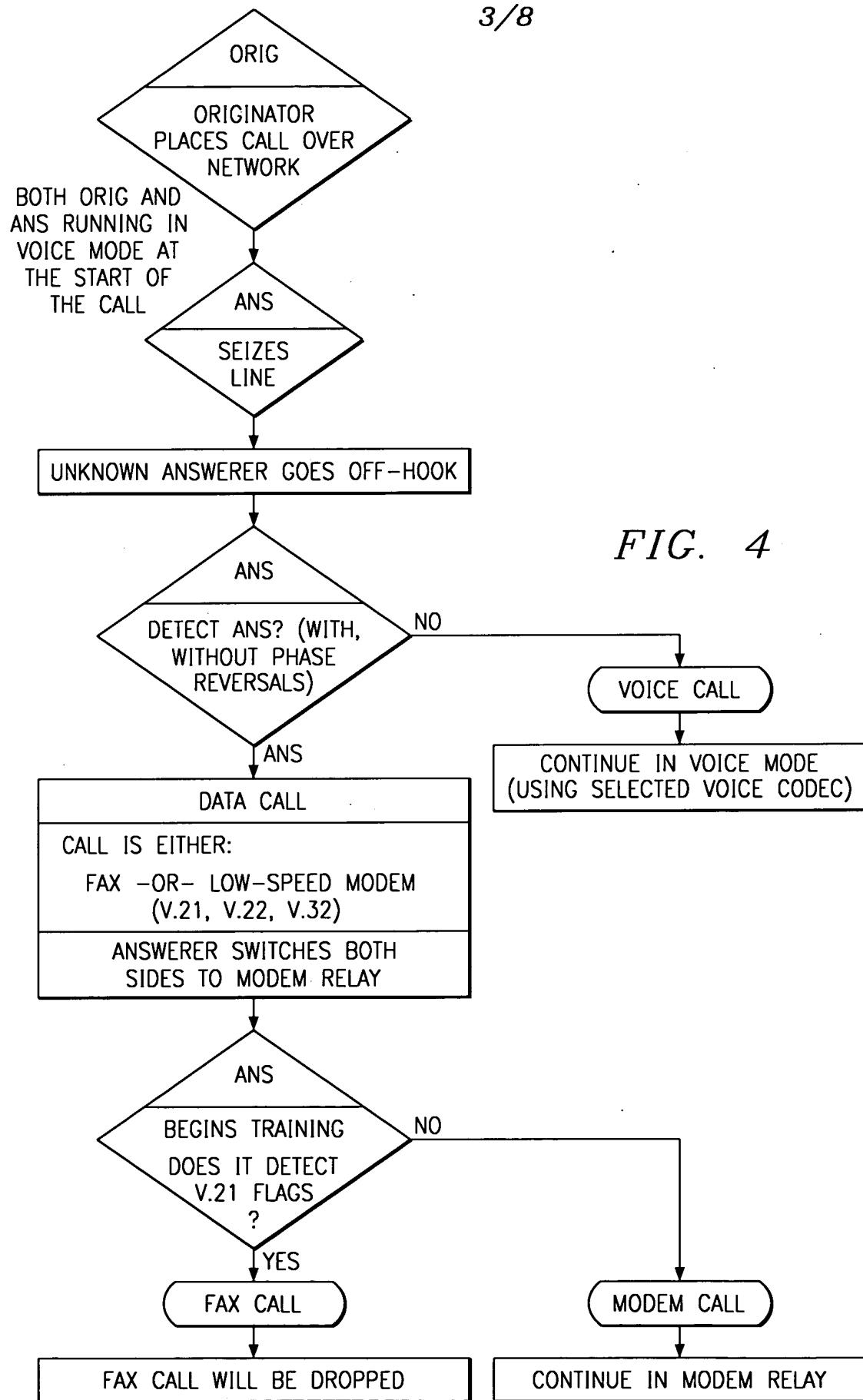
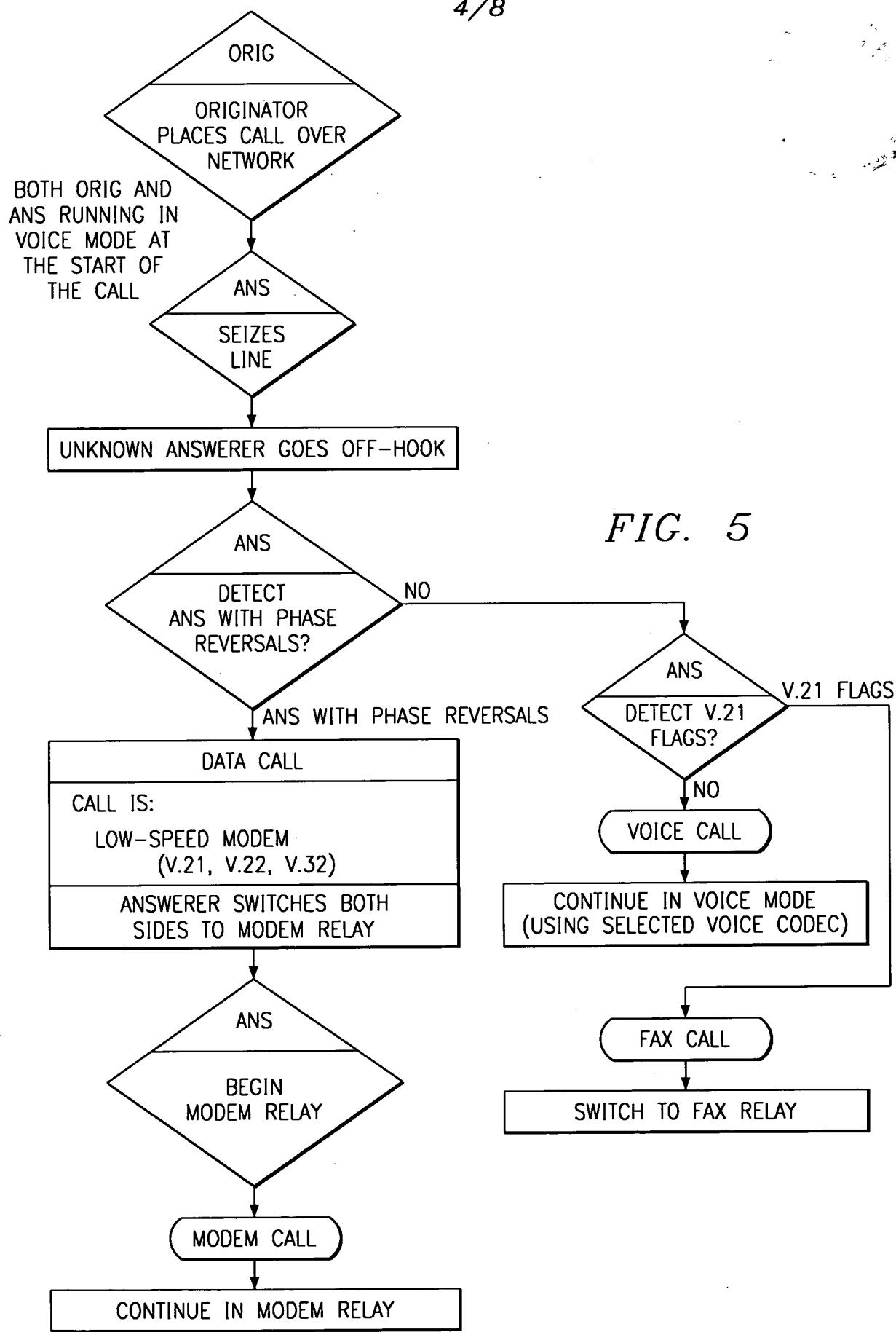


FIG. 2







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FIG. 7

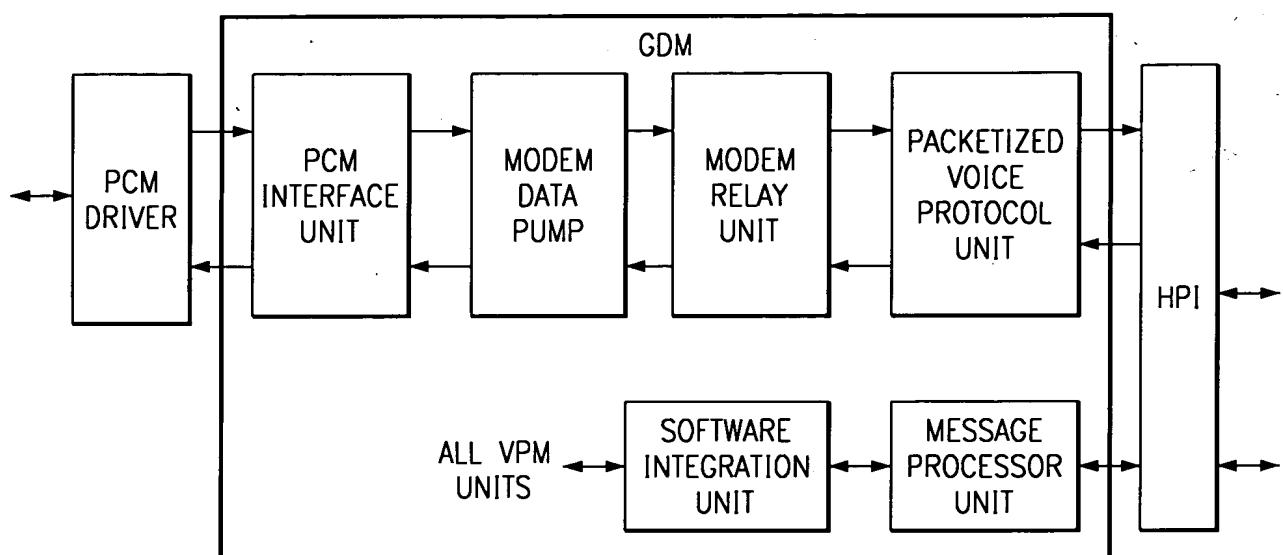
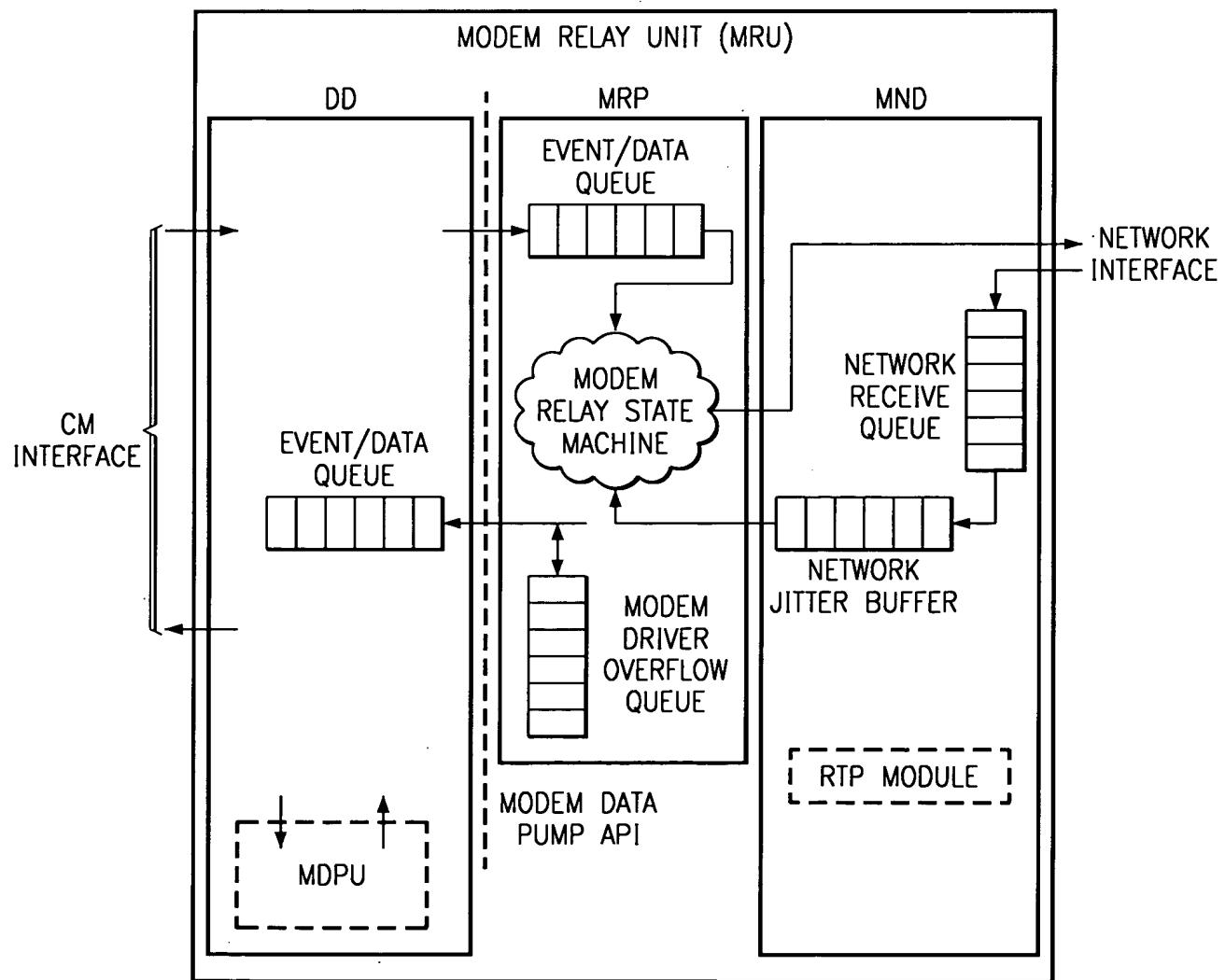


FIG. 8



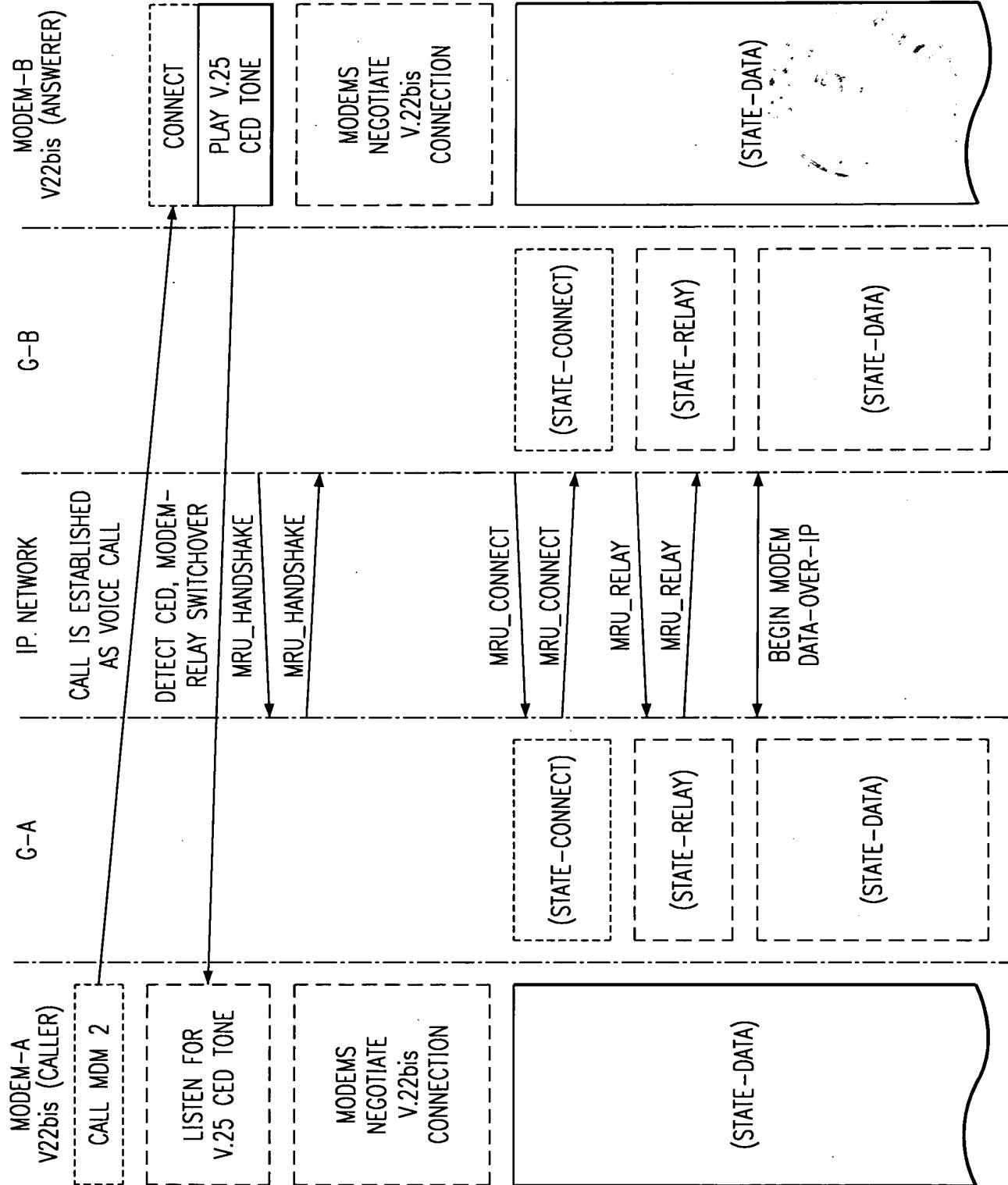


FIG. 9

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FIG. 10

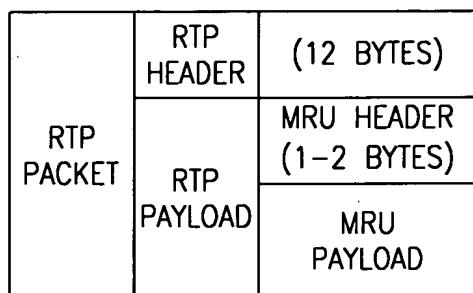
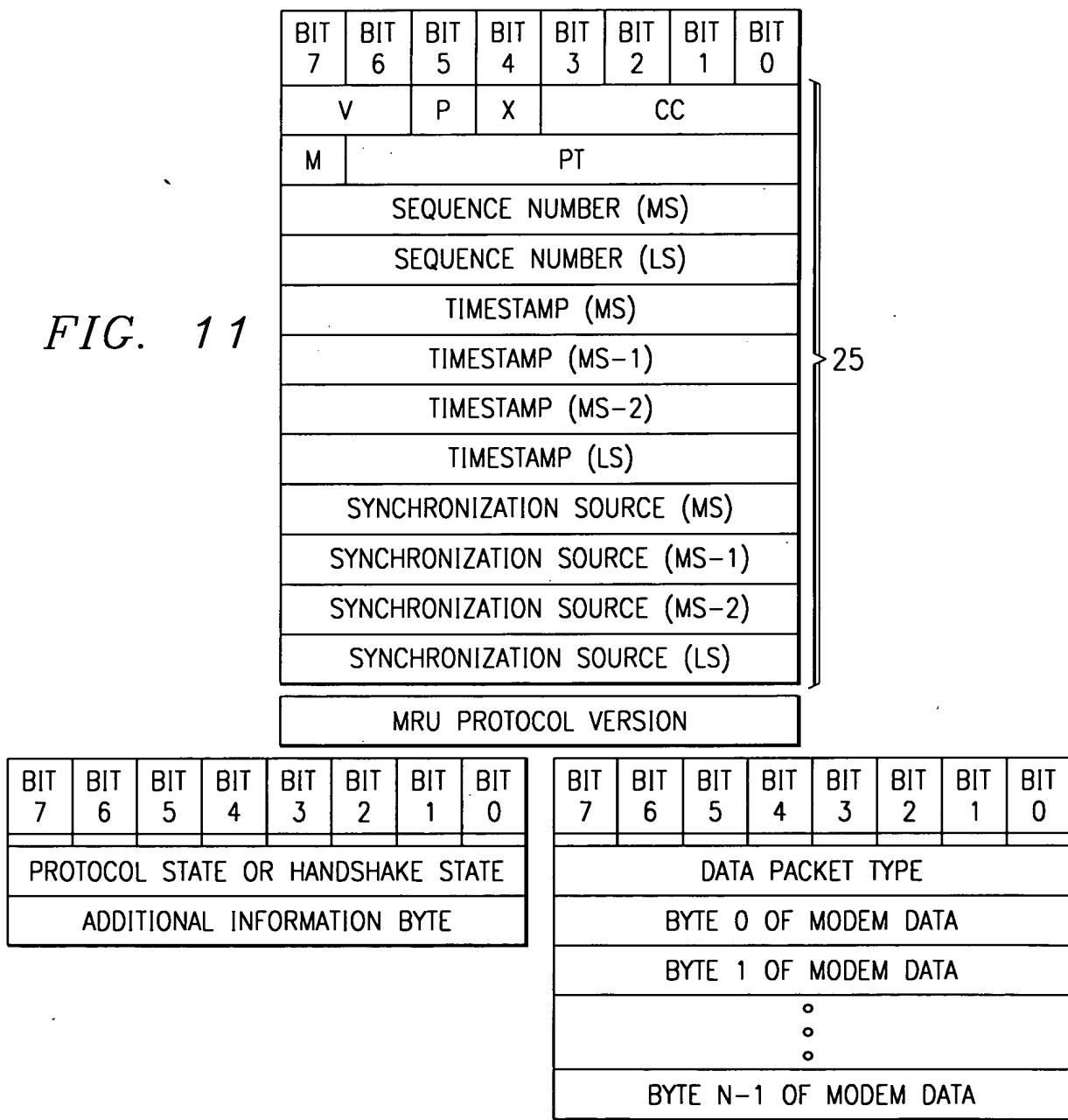


FIG. 11



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MODEM RELAY PROTOCOL STATE PACKETS	
PROTOCOL STATE	DESCRIPTION
OFFLINE	IDLE STATE
CARRIER LOSS	SILENCE ON THE ANALOG LINE, CARRIER LOSS
HANDSHAKE	MODEM DATA PUMPS WILL BEGIN HANDSHAKING PROCESS
CONNECT	LOCAL HANDSHAKE SESSION IS PASSED AND READY FOR MODEM RELAY
RELAY	MODEM RELAY TAKES PLACE

MODEM HANDSHAKE STATE PACKETS	
HANDSHAKE STATE	DESCRIPTION
V25	V.25 ANSWER TONE IS DETECTED ON THE LOCAL ANALOG LINE
V25PR	V.25 ANSWER TONE WITH PHASE REVERSALS IS DETECTED ON THE LOCAL ANALOG LINE
V21	V.21 B1 SIGNAL IS DETECTED ON THE LOCAL ANALOG LINE
USB1	V.22 USB1 SIGNAL IS DETECTED ON THE LOCAL ANALOG LINE
S1	V.22bis S1 SIGNAL IS DETECTED ON THE LOCAL ANALOG LINE
SB1_1200	V.22bis SB1 SIGNAL @ 1200 IS DETECTED ON THE LOCAL ANALOG LINE
SB1_2400	V.22bis SB1 SIGNAL @ 2400 IS DETECTED ON THE LOCAL ANALOG LINE

MODEM DATA PACKETS	
DATA TYPE	DESCRIPTION
V21	V.21 DATA @ 300 bps
V22	V.22 DATA @ 1200 bps
V22BIS	V.22bis DATA @ 2400bps

FIG. 12